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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/517,432	10/517,432 12/10/2004		Rene Vire	0512-1245	3928	
466	7590	05/08/2006		EXAMINER		
YOUNG &	tHOMI	PSON		OLSON,	LARS A	
745 SOUTH	I 23RD S1	TREET				
2ND FLOO	R		ART UNIT	PAPER NUMBER		
ARLINGTO	ARLINGTON, VA 22202					
				DATE MAIL ED: 05/08/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

£ j		Application No.	Applicant(s)
Office Action Summary		10/517,432	VIRE ET AL.
		Examiner	Art Unit
		Lars A. Olson	3617
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on <u>Marc.</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.	
Dispositi	on of Claims		
5)□ 6)⊠ 7)⊠ 8)□ Applicati 9)□	Claim(s) 1,3-12 and 14-16 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1 and 9 is/are rejected. Claim(s) 3-8,10-12 and 14-16 is/are objected to Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) acceptable.	vn from consideration. o. r election requirement. r. epted or b) □ objected to by the B	
_	Applicant may not request that any objection to the c Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).
	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
12) 🖾 . a) [Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau see the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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DETAILED ACTION

- 1. An amendment was received from the applicant on March 29, 2006.
- 2. Claims 2 and 13 have been canceled.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hightower et al. (US 4,010,619) in view of Buffman et al. (US 5,752,460).

Hightower et al. discloses an underwater device, as shown in Figures 1-9, for unwinding a wire between two moving objects, as shown in Figure 1, said device, defined as Part #20, having a wire, defined as Part #18, that is wound on at least one coil that is received in a reel, defined as Part #202, said reel being arranged between said two moving objects, defined as Parts #10 and 30, where said reel can be separated from said two moving objects, as shown in Figure 1, and comprises a means for stabilizing said reel in said fluid, defined as Parts #204 and 205, as shown in Figure 5. Said device also has a connection mechanism which temporarily connects said reel and one of said moving objects that has been launched, as shown in Figure 2.

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Hightower et al., as set forth above, discloses all of the features claimed except for the use of a stabilizing means in the form of a keel that is connected to a fixed plane.

Buffman et al. discloses a submersible towed body, as shown in Figures 1 and 2, that includes a stabilizing means in the form of a keel, defined as Part #134, that is connected to a fixed plane of said towed body, as shown in Figure 1, for the purpose of providing a means for holding said towed body on a fixed course, as described in lines 32-33 of column 2.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to utilize a keel on a towed body, as taught by Buffman et al., in combination with the underwater device as disclosed by Hightower et al. for the purpose of providing a passive stabilizing means instead of a thruster to enhance the stability of an underwater device.

Allowable Subject Matter

5. Claims 3-8, 10-12 and 14-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

6. Applicant's arguments filed on March 29, 2006 regarding claims 1 and 9 have been fully considered but they are not persuasive.

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7. The applicant argues that the passive stabilizer means as disclosed by Buffman et al. (US 5,752,46) cannot be combined with the underwater device as disclosed by Hightower et al. (US 4,010,619), as said passive stabilizer means would be unable to control the underwater position of said underwater device.

8. In response to the applicant's argument, Buffman et al. discloses a submergible towed body that includes a passive stabilizing means in the form of a keel that is attachable to a fixed plane of said towed body in order to provide a means for holding said towed body on a fixed course. Hightower et al. discloses an underwater device in the form of a submergible towed body that is nearly identical to that as disclosed by Buffman et al. Thus, it would have been obvious to one of ordinary skill in the art to combine the passive stabilizer means as disclosed by Buffman et al. with the underwater device as disclosed by Hightower et al. for the purpose of providing a submergible towed body with a passive stabilizing means for holding said towed body on a fixed course. Therefore, for the reasons given above, the rejection of claims 1 and 9 is deemed proper and is not withdrawn.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication from the examiner should be directed 10. to Exr. Lars Olson whose telephone number is (571) 272-6685.

lo

May 4, 2006

LARS A. OLSON PRIMARY EXAMINER

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